OIL and the GERMS of WAR

By

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Author of "The Next Step", "The American Empire", "Income", etc.

"International politics to-day are oil politics". — Briand

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1. An Economic Prodigy.

Oil is one of the most vitally important of all the resources, yet it is scattered capriciously over the various continents. Its products find a ready sale in every corner of the globe, and its refining, transport and retailing have proved one of the most lucrative of modern businesses. Oil profits, heaped up in a comparatively few hands, have added immensely to the investable surpluses that drive the masters of modern business toward financial imperialism. Furthermore, and this is the essential point, oil has lately become the very latch-key to imperial power, so that its possessor literally has the riches of the world at his feet. The struggle for oil-bearing lands has therefore reached a stage so acute that it has actively involved every nation seeking to qualify in the race for world supremacy.

The oil industry is the infant prodigy of the industrial world. Barring the automobile industry, with which it is intimately connected, none has developed in a more spectacular manner.

There was no oil industry prior to 1860, when the world’s total production was about half a million barrels. (Detailed figures page 31.) Production for 1870 reached nearly six million barrels; for 1880, 30 million barrels; for 1890, 76 million barrels. As lately as 1900, world production was only 130 million barrels. By 1910, however, production had climbed to 327 millions, and in 1922 it passed the 850 million barrel mark. Oil has been one of the major industries only during the past 25 years.

Between 1860 and 1900 petroleum was used mainly for illumination and for lubrication. In the cities it was forced to compete first with gas and later with electricity, but in the villages, and across the sparsely settled farming regions where dwell most of the inhabitants of the earth, kerosene provided, for the first time, a cheap and reliable form of canned sunlight. The farmer was no longer compelled to retire at nightfall. The villagers sat long after dark in his lamp-lighted kitchen, reading or talking over the business of the day.

Inexpensive and easily handled, kerosene became a popular fuel in less than a generation. The marvelous rapidity of its spread through Europe, across Asia and into Latin America and Africa affords a striking illustration of the readiness with which even supposedly backward peoples seize upon economic improvements which are of evident advantage.

A natural resource that ran out of the ground, that could be pumped across mountains and plains in pipes, that was refined
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at a low cost, yielding over two hundred products such as lubricating oils, gasoline, kerosene, benzine, paraffine, etc., many of which met a universal demand, was well calculated to make its possessors rich.

The oil industry of the United States (the United States produced 90 per cent. of the world’s oil as late as 1880, and is to-day producing about 65 per cent.) fell into the hands of a small group of men who have probably made more money, dollar for dollar, out of their oil investments, than have the investors in any other major industry.

2. Oil Empires.

John D. Rockefeller and a number of his associates set up one of the most important landmarks in the economic history of the United States when they organized the Standard Oil Company in 1870. The business atmosphere of the time was dominated by the idea of competition—the common assumption being that competition was not only inevitable, but that it was “the life of trade.”

Mr. Rockefeller held a different view. His ideal was a large, well organized, efficiently managed industrial unit, based on the principle of co-operation rather than of competition, and from his first investment in an oil refinery in 1862, through the organization of the Standard Oil Company, and during the succeeding years, Mr. Rockefeller did his best to get his potential competitors to come inside and share the benefits of joint effort. He never insisted on playing a lone hand, but surrounded himself with such men as William Rockefeller, S. V. Harkness, and H. M. Flagler. For the motto: "Producers compete!" Mr. Rockefeller substituted: "Producers unite!" and acting on this principle, within ten years he had under Standard Oil control more than nine tenths of the oil refining business of the country. This was the first great demonstration, in the American business world, of the precept: "In union there is strength.”

The position of the Standard Oil Co. was made still more secure by its control of the pipe lines through which the oil was transported, by its rebate contracts with the railroads, by its ruthless wars on stubborn competitors, and by the very efficient way in which its business affairs were conducted.

Standard Oil profits were large from the outset. A number of government investigations show that between 1882 and 1906 the total of cash dividends paid by the company was $551 millions, which was an average of 24 per cent. per year on the outstanding stock. In addition to the dividends, there were surpluses that made the total profit account for the period about $714 millions. The figures are well summarized in Chapter 5 of "The Trust Problem" (Eliot Jones. New York, Macmillan, 1921).

Here was a fateful combination: a valuable and very limited natural resource; the principle of industrial co-operation; enormous profits on a rapid turn-over, heaped up in great surplus funds. The result was inevitable. Standard Oil quickly became one of the masters of American public life, and those who questioned its sway or crossed its path made a quick exit from public office. Public investigations followed attacks by private "muck-rakers," and so persistent was the public demand for action that on May 11, 1911, the United States Supreme Court handed down a decree declaring the Standard Oil Co. a trust in restraint of trade, and ordering its dissolution into a number of constituent companies, such as the Standard of New Jersey, the Standard of Indiana, and the like. The events that followed threw an interesting side-light on the relative power of the Supreme Court and of Standard Oil.

Standard Oil stock, at the time of the Supreme Court decree, had a market value of about $98 millions. During the next ten years, the entire cash and stock dividends paid by the "dissolved" companies (The Standard Oil Properties, as they are now called) had a market value, in 1921, of $1,893 millions—more than eighteen times the capital value of the property ten years before. The market value of the stock of the dissolved companies in 1921 was $3,276 millions, or about 35 times the capital value in 1911. Then, too, the volume of dividends has been steadily mounting year after year.

This is merely the profit side of the problem. The really significant development is the widespread control exercised by the Standard interests over the productive machinery of the United States and of the world. This matter has recently been covered in great detail, and the results published in the "Hearings on the High Cost of Gasoline" conducted before the United States Senate Committee on Manufactures. Space permits only of a brief summary of the organization of one of the Standard companies—the Standard of New Jersey.

The Standard Oil Company of New Jersey drills oil wells, pumps them, refines the crude oil into many forms and sells the product—mostly abroad. It has three refineries in New Jersey; one each in Maryland, Oklahoma, West Virginia,
at a low cost, yielding over two hundred products such as lubricating oils, gasoline, kerosene, benzine, paraffine, etc., many of which met a universal demand, was well calculated to make its possessors rich.

The oil industry of the United States (the United States produced 90 per cent. of the world's oil as lately as 1880, and is at the present time producing about 65 per cent.) fell into the hands of a small group of men who have probably made more money, dollar for dollar, out of their oil investments, than have the investors in any other major industry.

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Louisiana, British Columbia, Nova Scotia, Peru and Mexico. Its pipe lines cover the important oil territories of eastern United States; it has over half a million tons of ocean-going tank steamers; it makes its own cans, cases, barrels, etc. Among its subsidiaries are five companies doing business in France; three each in Holland, Norway and Switzerland; two each in Belgium, Germany, Poland, Italy and England, and one each in Canada, Peru, the West Indies, Czecho-slovakia, Mexico, Denmark, Finland, Canada, Spain, Hungary, Austria, Roumania, Jugo-Slavia, Danzig, the Azores, Bolivia and Venezuela. Details regarding this vast organization, which literally covers the earth, may be found in the Senate Committee Report.

The Standard of New Jersey is only one of the Standard Oil Properties, and the Standard Oil Properties is only one of the many oil empires that have been built in the United States and in Europe during the brief period in which oil has mounted to a position of such supreme industrial and diplomatic importance.

3. The Oil Revolution.

Meanwhile the oil industry itself had been revolutionized. In the early years it provided light and heat and lubricants. To-day its strategic contribution is power.

This transformation was brought about primarily by the invention of the internal combustion engine. The steam engine developed power by applying heat to water and admitting the steam thus produced into the ends of an enclosed cylinder. The internal combustion engine developed power by dropping an explosive gas directly into the cylinder and igniting it with an electric spark. The steam engine, coal driven, required a relatively large and cumbersome equipment. The gas engine could be tucked away in a buggy, in a row-boat, or a balloon. The essential improvements which were embodied in the internal combustion engine (made for the most part between 1900 and 1910) yielded new means of land, water and air transportation in the form of the motor car, the motor boat, the submarine and the heavier-than-air flying machine.

It is not yet possible to measure the economic and social effects of these new means of transport. So recent are the inventions, and so sudden has been the development of these new human activities that their ultimate results are still a matter for speculation. The facts themselves are well illustrated by the phenomenal rise of the automobile industry in the United States. In 1900, there were 13,824 registered autos in the United States; in 1910, there were 468,407, while in 1922 there were 12,239,140. The automobile industry has literally been created within the past fifteen years.

The engines which drove motor boats, airplanes and automobiles used refined and high-grade oils. At about the same time that they were being brought on the market, an engineer named Diesel produced an engine that subjected crude oil to great pressure and thus made it usable, particularly in heavy engines. Refined oils were expensive. Crude oil was dirt-cheap.

Still the Diesel engine did not supplant the coal driven machinery in the ocean liner and the battle-ship. That result was accomplished by a device which sprayed crude oil, mixed with compressed air, under the boilers of ocean-going ships. The result was immediate. Coal burning ships were doomed while "oil was available.

Ten for ton, oil contains more fuel value than coal, and in a more available form. Oil, as a fuel for ships, thus enlarges the cruising radius of ships about fifty per cent, while it re-
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duced the amount of bunkerage space by thirty per cent. The oil burning ship therefore sails farther without re-fueling, and carries a greater net tonnage of freight. Beside that, oil is more economical to handle than coal, since it can be sent aboard through a pipe, and conducted, in the same manner to the boilers. This method of burning fuel-oil compelled all of the leading commercial companies to adopt oil for their new and their fast ships.

4. Oil in the Great War.

But this was only the commercial side of the oil revolution. The new fuel modified the whole method of warfare.

The four new and decisively important transport factors developed during the late war were the submarine, the airplane, the tank and the motor transport service. The country which had only coal could use no one of these devices, but was confined to the steam-engine and the horse on land, and the coal-burning ship at sea. The oil-rich nation could make war in the air; could transport its armies in motor cars, which are much more mobile than steam engines; could fight with land battleships and, because of the less weight of oil fuel, could mount heavier naval guns than its coal-using rival.

The Germans had coal in abundance, but little oil. German armies moved in trains or walked. The Allies had an abundance of oil. Their armies were more mobile; their air fleets were better supplied with fuel; their submarines had an abundance of motive power, and their battle fleets were being rapidly transformed to the oil-burning basis.

Thus Frances Delaisi in his "Oil" describes the position of France: "In December, 1917, when the cartel of our ten oil merchants which had undertaken to supply our armies, admitted that it was powerless to fulfil its engagements and that its stocks would be exhausted in March, 1918, on the eve of the Spring Campaign, M. Clemenceau addressed a despairing appeal to President Wilson.

"Upon the orders of the latter—and in spite of certain intrigues on the part of the French group—the War Service Committee, consisting of the great heads of the American industry, immediately placed all the required tankers at the disposal of France. Thanks to the reserves thus built up at the time of the great German push in Picardy, Marshal Foch was able to bring up heavy reinforcements in motor lorries and fill the gaps where the British front had been broken . . . . It has been well said that 'the victory of the Allies was the victory of the lorry over the locomotive.'" (P. 29.)

Lord Curzon, at a dinner to the Inter-Allied Petroleum Council (Nov. 21, 1918) put the matter thus: "The Allies floated to victory on a wave of oil." The multitude ascribed the triumph to the soldiers. The more experienced statesmen, who were on the inside of the national councils, understood that the triumph of the Allies was the triumph of superior air fleets, naval units, and of superior army mobility due to the use of motor cars. The men in the trenches fought equally well on both sides, as anyone who was at the front over a long period of time is ready to admit.

The World War was thus an oil-won war, proving conclusively that the national supremacy of the future rested on oil as a source of military and naval power.

5. Oil Sweeps Into Politics.

No Great War was necessary to show thinking people the direction in which the economic wind was blowing. As far back as 1910 the responsible statesmen and business men of Great Britain had seen what was coming.

The modern British Empire was built upon coal. As one writer has very effectively put it: Imperial Britain owes her supremacy, not to the number and tonnage of her ships alone, but also to her monopoly of fuel.

"Thanks to the numerous coaling stations which Britain has scattered over all the steamship lanes of the world not a single ship, whether of war or commerce, can move upon the seas save by her grace. Her coal, moreover, assures to her vessels, large and small, a cargo of outward-bound freight which is certain to find sale in any land; British steamers can always sail, therefore, with full holds—a fortunate circumstance that enables them to give lower return freight rates than the ships of any other country. For this reason merchandise consigned to England pays lower transportation charges than freight distributed to any other land, and English industry benefits correspondingly by this genuine advantage in the purchase of raw materials abroad. This is the great advantage in the British campaign for the conquest of international markets, and it may be said that the whole commercial and industrial prosperity of England, for a century past, has rested on this heritage of coal." (E. Eberlein in La Grande Review. Living Age. Vol. 311, pp. 693-4.)
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By 1910 it was apparent to far-seeing men that the control of land and sea and air in the future would follow the control of oil—a material "more precious, more complete in its dominating power over the planet than gold itself." ("La Lutte Mondiale pour le Petrol." Pierre l'Espaniol de la Tramercye. Paris, La Vie Universitaire, 1921, pp. 16-17).

Before the power which oil gives to its possessors, all else must give way. "Armies, navies, money, and even entire populations count for nothing as against the lack of oil." (the same p. 100.)

6. Save the Empire!

Never had British resourcefulness, strategy and courage been more sharply tested. Never was Britain's boast of her ability to take care of herself more justified.

The British Isles are oil-poor. With the exception of some unimportant oil-shale deposits in Scotland, they contain no commercially available oil. The same thing is true of all Northwestern Europe. The center of modern industrialism has not been supplied by nature with enough oil to meet its needs for one month in the twelve.

Where, then, is the world's oil?

Roughly speaking, the apparent reserves of oil which are now commercially available total a little more than 40 billions of barrels. Of this amount North America is credited with 12.5 billion barrels (United States, seven billions, Mexico, five billions, Canada, half a billion); Asia is credited with 10 billions, of which six billions are in Persia and Mesopotamia; South America is credited with 10 billions (three billions in Argentina and Bolivia, six billions in Colombia, Venezuela and Peru), and Russia with six billions of barrels. The scattering remainder is in the East Indies, the Balkans, in the Philippines, in Australia and so on. The bulk of the world's oil, however, is concentrated in a very few comparatively small areas. In Europe, almost all of the reserve oil is in the southeast corner of the continent.

The British Empire of 1910 was not an oil empire. Quite the contrary, it was notably lacking in oil. Britain was the ostensible mistress of the world, but fully nine-tenths of the world's oil resources lay outside of her territories. To get an adequate supply of oil for the Empire would be a master stroke of commercial enterprise and of diplomacy.

It was apparent from the beginning that the British could not work in the open without arousing their competitors. Therefore they went to work under a number of disguises. The Shell Transport Co., for example, which was engaged in the mother-of-pearl business, was used as a likely agency for the British control of oil in the East. The Royal Dutch, a company ostensibly controlled in Holland, furnished another...
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The New Fuel
The sudden rise of oil production as compared with coal production since 1900 (world figures)

The British Empire had been built upon coal. A series of simple inventions, made for the most part between 1900 and 1910 had substituted oil for coal as the strategic fuel of industry. Great Britain had ample coal reserves, estimated at 189,553 million tons, which constituted about a quarter of the reserves of all Europe. She had no oil.

Commerce, naval supremacy, insurance, banking, the securing of raw materials on favorable terms, surplus investment funds—all hung in the balance. Without oil, they must all be lost to her oil-rich rivals. The economic plight of Britain was critical. A few men including Sir Marcus Samuel, Chairman of the Shell Transport Co., Lord Cowdrey, head of the Pearson Interests, Lord Curzon, and Sir John Cadman, went to work, silently and with true British zeal.

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admirable cover. The Mexican Eagle Oil Co., handled the
interests of the Pearson group in Mexico. Within a few years
these companies had secured important oil concessions in Rou-
mánía, Russia, California, Oklahoma, Texas, Trinidad, Mexico,
The Dutch East Indies, and Egypt. The apparent diversity
of these interests made it possible for the British Admiralty to
drop a hint to the effect that self-protection demanded British
participation in oil development. The power of the Crown was
therefore placed behind the Burma Oil Co. and the Anglo-
Persian Oil Co. So quickly was the work done that in March,
1920, Sir E. Mackay Edgar was able to give an interview to
the London Times, in which he said:
"I should say that two-thirds of the improved fields of Cen-
tral and South America are in British hands. In Guatemala,
Honduras, Nicaragua, Costa Rica, Columbia, and Ecuador,
a decisive and really overwhelming majority of the concessions
are held by British subjects. . . . The Shell group owns
exclusively or controls interests in every important field in the
world, including the United States, Russia, the Dutch East
Indies, Roumania, Egypt, Venezuela, Trinidad, India, Ceylon,
the Malay States, North and South China, Siam, the Straits
Settlements and the Philippines.
"If their present curve of consumption is continued, Ameri-
cans, in ten years will be under the necessity of importing 500
million barrels of oil yearly, at $2 a barrel—a very low figure
—and that means an annual payment of $1,000,000,000 per
annum, most, if not all of which will find its way into British
pockets."
After pointing out the immense economic advantage held by
the British as a result of this situation, the statement adds:
"The British position is impregnable."
Ten years before, Britain controlled practically no oil. In
1920, she was independent. With the rapid exhaustion of the
American fields, the British oil interests will dominate the oil
industries of the world.

7. The Oil Stampede.

The statement came as a revelation to the American people.
For fifty years the oil wells of the United States had supplied
from two-thirds to nine-tenths of the world's oil; the reserves
of the southwest seemed inexhaustible; the American position
was deemed secure, and yet here was a statement from a re-
sponsible source that within ten years, the American people
would be dependent on Britain for their oil.

Resolutions of inquiry were introduced into Congress, the
newspapers took up the cry, and on May 2, 1920, the Geolog-
ical Survey issued a report showing that the world, outside of
the United States, was consuming 200 million barrels of oil
per year. At this rate of consumption, the reserves of the
remainder of the world would last approximately 250 years.
The United States, with its consumption (1920) of 400 million
barrels per year could expect its reserves to last only 18 years.
Acting Secretary of State Polk intensified the situation by
submitting a report which went to Congress May 17, 1920, in
which he asserted that; "The policy of the British Empire is
reported to be to bring about the exclusion of aliens from the
control of the petroleum supplies of the Empire, and to en-
deavor to secure some measure of control over oil properties in
foreign countries . . . .

"1. By debarring foreigners and foreign nationals from
owning or operating oil producing properties in the
British Isles, Colonies and protectorates.
"2. By direct participation in ownership and control of
petroleum properties.
"3. By arrangements to prevent British oil companies
from selling their properties to foreign owned or con-
trolled companies.
"4. By orders in Council that prohibit the transfer of
shares in British oil companies to other than British
subjects or nationals."

This statement was confirmed and strengthened by subse-
quent communications from the State Department. The British
were not content to get concessions that gave them the control
of the bulk of the world's oil. They were apparently determined
that no stone would be left unturned to prevent British sub-
jects from disposing of their oil properties. Despite the fact
that British companies had obtained free access to the oil fields
of the United States, the American investor was excluded from
British territory.

At almost the same time an agreement was reached at San
Remo between France and Britain (April 24, 1920) under
which it was arranged that all except British and French sub-
jects should be excluded from oil territory in certain French
and British possessions.

8. A World Oil Trust.

Later investigations showed that practically the entire oil
industry of the world was in the hands of two great combines—
admirable cover. The Mexican Eagle Oil Co., handled the interests of the Pearson group in Mexico. Within a few years these companies had secured important oil concessions in Roumania, Russia, California, Oklahoma, Texas, Trinidad, Mexico, the Dutch East Indies, and Egypt. The apparent diversity of these interests made it possible for the British Admiralty to drop a hint to the effect that self-protection demanded British participation in oil development. The power of the Crown was therefore placed behind the Burma Oil Co. and the Anglo-Persian Oil Co. So quickly was the work done that in March, 1920, Sir E. Mackay Edgar was able to give an interview to the London Times, in which he said:

"I should say that two-thirds of the improved fields of Central and South America are in British hands. In Guatemala, Honduras, Nicaragua, Costa Rica, Columbia, and Ecuador, a decisive and really overwhelming majority of the concessions are held by British subjects. . . . The Shell group owns exclusively or controls interests in every important field in the world, including the United States, Russia, the Dutch East Indies, Roumania, Egypt, Venezuela, Trinidad, India, Ceylon, the Malay States, North and South China, Siam, the Straits Settlements and the Philippines.

"If their present curve of consumption is continued, Americans, in ten years will be under the necessity of importing 500 million barrels of oil yearly, at $2 a barrel—a very low figure—and that means an annual payment of $1,000,000,000 per annum, most, if not all of which will find its way into British pockets."

After pointing out the immense economic advantage held by the British as a result of this situation, the statement adds: "The British position is impregnable."

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This statement was confirmed and strengthened by subsequent communications from the State Department. The British were not content to get concessions that gave them the control of the bulk of the world's oil. They were apparently determined that no stone would be left unturned to prevent British subjects from disposing of their oil properties. Despite the fact that British companies had obtained free access to the oil fields of the United States, the American investor was excluded from British territory.

At almost the same time an agreement was reached at San Remo between France and Britain (April 24, 1920) under which it was arranged that all except British and French subjects should be excluded from oil territory in certain French and British possessions.

8. A World Oil Trust.

Later investigations showed that practically the entire oil industry of the world was in the hands of two great combines—

Royal Dutch was organized in 1890; Shell Transport in 1897. Both companies have paid handsome dividends. Royal Dutch, between 1910 and 1921 averaged 42 per cent. to the common stock holders; Shell Transport paid average dividends, between 1909 and 1921, of 31 per cent. Both are holding companies, and their profits are merely the net returns from the underlying concerns. The two organizations were affiliated in 1907, Royal Dutch taking 60 per cent. of the stock in subsidiaries and Shell Transport taking 40 per cent.

At the present time there are about 103 of these subsidiaries operating in Egypt, Russia, Dutch East Indies, Malay States, India, China, Korea, Manchuria, Philippines, Siam, Straits Settlements, Roumania, Australia, New Zealand, South Africa, Venezuela, Mexico, Denmark, Finland, Holland, Jugoslavia, Italy, Poland, Norway, Japan, Canada, United Kingdom, Sweden, Trinidad and the United States.

The proportion of petroleum production controlled by the Royal Dutch-Shell interests is given as 2 per cent. in the United States; 97 per cent. in the Dutch East Indies; 98 per cent. in British Borneo; 100 per cent. in Roumania; 100 per cent. in Egypt; 29 per cent. in Roumania; 27 per cent. in Venezuela; 16 per cent. in Trinidad.

The strategic power of the Royal Dutch-Shell group lies in their 120 fuel-oil bunkering stations, which are located in every important port of call all round the world. Ten of them are in the United States.

This report of the Federal Trade Commission confirms the earlier statements with regard to the discriminations against American oil interests by the British and other governments.

Sir Mackay Edgar has told the truth. As to his prophecy concerning the imports of oil by the United States, during the year ending June, 1922, imports of crude petroleum were at the rate of 125 million barrels per year, and for the year ending June, 1923, at the rate of 90 million barrels per year.

Meanwhile the struggle for oil went on unabated. The Genoa Conference "reeked with oil." At Lausanne, Lord Curzon said simply and emphatically that the British Government would fight before it would leave Mosul. Then came the Chester Concessions, under which American interests laid claim to important oil lands in Asia Minor that were also claimed by France, through a pre-war concession, and by Britain under a mandate from the League of Nations.

9. The First Oil War.

When the original statements appeared regarding the British policy of excluding non-British subjects from British oil territory, Franklin K. Lane spoke out briefly and pointedly: "A policy of this description has inspired among Americans the fear that Britain in acting thus, desired to check the naval development of the United States. Now, do such proceedings lead to peace or war?"

Meanwhile the Standard Oil Company had invaded France. The French Government was about to turn the control of petroleum back into private hands, and the Standard, through the organization of several subsidiaries prepared to take care of the business. This accounts for the fact that the Standard of New Jersey has more subsidiaries in France than in any other country of Europe.

Such was the ostensible motive behind the move of Standard Oil into France. But this was mere camouflage. In Mesopotamia and Persia there were oil reserves estimated to equal the total oil reserves of the United States. These reserves were largely in British controlled territory, but under the San Remo agreement, there was a chance for French interests to share in their development. Beside, the French government was the only real rival that the British Government had left in Europe and the Near East, and as the competition between the two was very intense, there seemed nothing more logical than for the Standard Oil interests to use the French Government to secure a share of Near East oil concessions.

The way in which the drama developed is thus summarized by a keen observer who has spent the past ten years studying this very problem:

"The war between the Greeks and the Turks was only that in name. It was actually, as everyone aware of the inner facts knows, a war between England and France. The Greeks were armed and financed and supported by England and transported in English ships. The Turks were armed and transported and largely drilled and officered by French. And all of this was a struggle between these two powers for possession of the reserves of oil. In the struggle France was supported and even..."

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SOURCES of PETROLEUM — 1922

The size of the circle shows amount produced

dominated by American financial interests. To push the matter back to its last analysis, the war between Greece and Turkey was actually a war between the Shell-Royal Dutch Oil Co., which is now the property of the British Government, and the Standard Oil Company of America which now largely operates the French Government and which owns the twelve leading newspapers of France.

Whoever controls the oil supplies of the world will control the world economically and politically, and the whole world is being plunged into chaos over a struggle for this control."

This statement is not documented. It represents the conclusions of a careful student, and of an observer who has had a rare opportunity to see European diplomacy from the inside. Significantly, however, the deductions which this man reaches correspond accurately with the superficial facts as they range themselves before the student on the American side of the Atlantic. Certainly the Greeks had English backing in the late war, as the Turks had French backing. Certainly England and France are maneuvering for position in the Near East. Just as surely Royal Dutch-Shell and Standard Oil are moving heaven and earth to capture the immense oil reserves of Mesopotamia. As for the capacity of the Standard Oil to manage the French Government, its record in the United States seems to indicate that the organization has a real genius for such a job.

What a picture this Near East scramble presents! What a sight for the gods! Greek farmer boys and artisans lay aside their tools, and, in the name of Jesus, don uniforms and sail away to fight against the heathen Turk, while Turk farmer boys and artisans lay aside their tools and arm themselves to destroy the unbelievers. On either side the soldiers pass in bold array. Public men harangue and flatter them, priests exhort them, newspapers extol them, crowds applaud them. They reach the front; camp in over-crowded, disease-ridden, waterless places; march through the baking heat, ragged, half-starved; they ravish the country-side, trampling crops, sacking farms, destroying olive groves, burning villages; they meet in battle, sweat, bleed, suffer, agonize, die. For them it is a war to vindicate a faith, and to save their hearth-stones from dishonor. But behind them, in London, Paris and New York, sit old, cynical, scheming men, laying the plans for the next campaign, and wondering whether the result of a given battle will be an extra dividend for Shell Transport or for Standard Oil.

10. The Logic of Oil Diplomacy.

What of the future?

E. C. Eckel in his study "Coal, Iron and War" (Holt, 1920) points out that modern wars have an economic background; that oil has become one of the imperatively needed economic resources; that it is limited in its distribution; that it is already the object of a struggle which must become fiercer as the demand for oil increases against a decreasing supply. If the last war was an iron war, he concludes, the next war may well be an oil war.

With commendable thoroughness Mr. Eckel follows this proposal by making the following recommendations; ("The Annalist" for Nov. 14, 1921).

"5. The first duty of our navy in time of war will be to secure the Caribbean. The first duty of our expeditionary forces will be to furnish protection to the oil fields of this extra territorial region.

"7. Countries with adequate commercial fleets and navies will look rather to the three South American zones—the North coast, the west coast and the south east coast, all of which have immense petroleum reserves. The pressure, there and elsewhere, will be increased year by year, and the financial and commercial rivalry may at times have important political and military results."

The countries about the Caribbean are "independent" nations, but, alas! when the independence of a weak nation is weighed against important oil reserves, it is mere dust in the balance. The great imperial countries must have oil, and in order to obtain it, they must go where oil is to be found. As each oil field is discovered, and its richness is proved, it will be the object of a fierce rivalry—of a life and death struggle between those who are contending for the economic and political supremacy of the world.

What does it all mean?

Franklin K. Lane gave the answer in 1920—this means war!

11. What Is War?

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General Sherman answered: "War is hell!"

This was a description of the actual fighting. Sherman was thinking of the murderous assault and the savage defense; of
dominated by American financial interests. To push the matter back to its last analysis, the war between Greece and Turkey was actually a war between the Shell-Royal Dutch Oil Co., which is now the property of the British Government, and the Standard Oil Company of America which now largely operates the French Government and which owns the twelve leading newspapers of France. Whoever controls the oil supplies of the world will control the world economically and politically, and the whole world is being plunged into chaos over a struggle for this control.”

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These are the immediate aspects of war. With them have been associated, time out of mind, fortitude, heroism, strength, courage, adroitness, vigor, red-blooded manhood. Those who champion war, and who find it in a regenerative social force, point to the tests of the battlefield as the fire out of which men come, purged and purified.

But there are other sides of war.

Battles occur only occasionally. Between them, there is the endless waiting, the monotony, the wearisome routine of a service that is meaningless unless it leads to action. And following the battles, there are the wild debauches of the victors and the mad despair of the vanquished. In the path of the moving army there are consternation and terror, and in its wake, demoralization. The camp followers are not a pleasant subject for contemplation, but they are just as much a part of every army as are the field pieces or the soldiers themselves.

Again, there are the profiteers of war. Behind the lines, safe from any possible harm, these vultures ply their trades. Mouthing patriotic phrases, wrapped in the flag, uttering fulsome promises to the boys on their way to the front, the makers of powder and uniforms, the millers of wheat and the jobbers in wool take the last possible penny of profit for the things upon which the men at the front depend for their very existence. While the soldiers suffer and die these men grow rich, converting the hardships and the agonies of the conflict into private bank accounts. Sherman had no word strong enough to characterize such exploiters; yet they are an inevitable element in every war.

To be sure there are not many profiteers. When their numbers are reckoned against the total of the population, they are a negligible factor.

But there are still other aspects of war.

Men are by nature builders. They are compelled, as a means of self-expression, to produce and create. Some of them grow crops, some weave fabrics, some shape tools. The instinct of workmanship lies at the root of man's nature. It also lies at the foundation of society.

The world in which we live is built and maintained by productive labor. There is no other known method of supporting life. Bread, shoes, windows, books, pictures, motor-buses, mines, factories, railroads, exist because of the creative and organizing faculties of human nature. Civilization is founded on production. It is the great affirmation.

War is the great negation—the challenge to the vast stream of productivity that has ebbed and flowed about the human race for ages. The chief object of war is destruction.

The successful producer is the one who creates the most and the best. The successful soldier is the one who destroys the most and the best.

The wars of old were fought by professional soldiers, while most of the people went about their ordinary occupations. Modern wars are fought by whole populations. The young men are drafted. They bleed and die, bomb and destroy by the millions. Men who are artisans and craftsmen; men who love to feel the lines of a beautiful carving, or who dwell lingeringly over a rich color or a fine design; men who fondle children and feel the warm bonds of human sympathy for all who suffer or lack—such men devote years to maiming or murdering their fellows, to bombing cities, burning stations and cathedrals, felling fruit trees, dynamiting mines and factories. The flower of each nation's productive manhood is employed during war, in systematic destruction.

How can such things be? What makes possible this transformation of the producer who loves to create into a ferocious destroyer? There is only one way in which such a result can be accomplished—through the arousing of fear and of hate.

Sane men do not destroy wantonly. No lover of the land will cut down a fruit-tree; no trained artisan will smash a valuable machine; no scholar will burn a manuscript; no father will harm a child, unless he is filled with fear or with hate.

Before there can be a successful war, or even a threat of war, people must be whipped into a frenzy. They must forget the work they have been doing, the families they have been raising, the friends they have been making, and prepare to destroy the property and the lives of their "enemies."

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Who are these enemies?
They are the citizens of some other state—ordinary human beings—mechanics, fathers of families, neighbors. But if this simple fact were understood there could be no war, because no man in his right senses would tear them to pieces with bombs or burn their houses or destroy their factories and railroads. Consequently, the editors, the teachers, the preachers, the public speakers, the photographers and the advertising men are set to work to paint the “enemy” as beasts and monsters. This is done regularly as a prelude to every war, and since there are bad deeds to the credit of every people, it requires only a little ingenuity and a touch of imagination to make Greeks believe that all Turks are children of the devil, and to make Turks believe that all Greeks are limbs of the tree of evil.

The truth tellers are silenced, the proper government department acts as official liar for the administration, the sense of pity is numbed, love and brotherhood are cast aside and the nations seethe with fear and hate.

Why are these preparations made? Because without them there could be no war.

Must there be war? Yes, there must be war so long as men are bent on taking their livelihood from others instead of producing it for themselves.

War is a business. Like any other business, it is not conducted on the sidewalk. Behind the lines there are the general staffs, the experts in strategy, the military schools. In the army and navy departments there are men whose sole duty it is to map out the campaigns far in advance of their execution; to design and to build guns, forts and ships; to experiment with explosives and poisonous gases; to construct air-planes, tanks and submarines; to arrange the detail or army operation and equipment—to what purpose? They are working toward the goal of all military science—the destruction of life and property.


Strictly speaking, war is organized destruction. There is nothing impetuous, emotional, or accidental about a war as there is about a street fight. On the contrary, it is just as carefully worked out as the most methodical business in the world.

Modern states spend more money on war than on any other single government activity. Since the purpose of war is destruction, modern states devote their chief energies to wiping out the wealth and the life that have been accumulating through the centuries.

War is more than hell. It is a disease that breaks out among peoples at intervals, doing unmeasurable damage. The last war, for example, resulted in the destruction of some ten millions of lives on the battle-fronts; in the death of some 25 millions of civilians from exposure, famine and plague, and in the destruction of perhaps 275,000 millions of dollars worth of wealth, not to mention a demoralization of the economic life of Europe that is more acute five years after the war than it was in 1918.

Among all of the diseases that have fastened themselves on the body social, war is the most dramatically disastrous. Hence the conquest of war would give renewed hope to all of those who are striving for a better world.

How can war be conquered? Only by discovering and removing the causes that lead to war. A war to end war is as grotesque as a cholera epidemic to end cholera. War will be conquered when men have discovered and destroyed the germs that make war inevitable.

13. Hunting the Germ.

Social diseases—like diseases of the physical body, arise from certain causes. Those causes must be clearly understood before any successful remedy can be applied.

It is all well enough to call in a doctor after the patient has developed typhoid fever, but the really important thing is to be sure that no one else gets the disease from the same source. When a public health expert is detailed to fight an epidemic of typhoid, his first question is directed to the source of the difficulty. “Where does this thing come from?” he demands. Until he has found the answer, the community cannot feel safe from the spread of trouble.

The same truth holds for every problem that confronts society. “Where does this difficulty have its origin?” is the first question that statesmen must ask of poverty or ignorance or war.

War is organized destruction. Why do sound-minded men support and justify it?

War, in its essence, is carried on as a part of the human struggle for wealth and for power. Pigou notes that the fundamental causes of war are “the desire for domination and the desire for gain.” (“The Political Economy of War.” London, Macmillan, 1921, p. 16.) “Wars in the past,” writes Commons, “have been fought over exports of products and annexations of territory.” (Address of the President
They are the citizens of some other state—ordinary human beings—mechanics, fathers of families, neighbors. But if this simple fact were understood there could be no war, because no man in his right senses would tear them to pieces with bombs or burn their houses or destroy their factories and railroads. Consequently, the editors, the teachers, the preachers, the public speakers, the photographers and the advertising men are set to work to paint the “enemy” as beasts and monsters. This is done regularly as a prelude to every war, and since there are bad deeds to the credit of every people, it requires only a little ingenuity and a touch of imagination to make Greeks believe that all Turks are children of the devil, and to make Turks believe that all Greeks are limbs of the tree of evil.

The truth tellers are silenced, the proper government department acts as official liar for the administration, the sense of pity is numbed, love and brotherhood are cast aside and the nations seethe with fear and hate.

Why are these preparations made? Because without them there could be no war.

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War is a business. Like any other business, it is not conducted on the sidewalk. Behind the lines there are the general staffs, the technicians, the military schools. In the army and navy departments there are men whose sole duty it is to map out the campaigns far in advance of their execution; to design and to build guns, forts and ships; to experiment with explosives and poisonous gases; to construct air-planes, tanks and submarines; to arrange the detail or army operation and equipment—to what purpose? They are working toward the goal of all military science—the destruction of life and property.


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Rear Admiral Niblack in his “Why Wars Come” quotes with approval the statement of David-Jayne Hill that the roots of war “run deep into the soil of trade rivalry and economic aspirations.” (pp. 146-7). G. Lowes Dickinson hears “behind the patriotic cries of the press, behind the shrieks of wounded and dying men, giving their lives, as they think, for freedom and their country, the cold miscalculations of business men risking the certainty of general loss for small possibilities of individual gain.” (“War.” London, Allen and Unwin, 1928, p. 182.) Man’s nature compels him to search for food. It is equally emphatic in its urge toward the accumulation of power. In a highly evolved economic society, the two go hand in hand—the larger the volume of wealth, the greater the power which its owner is able to exercise over his fellows. Hence men, in their struggle to live and to express themselves, necessarily strive to accumulate wealth, which is the touch-stone of modern power.

Here, then, is an initial answer to the question concerning the germs of war. War is an aspect of the struggle for wealth and for power that is being continually waged between groups of human beings.


Wars in the past may have had their immediate causes—their starting points—in personal quarrels over the possession of a throne or a woman; in a shooting affray or an insult to a flag; but if there were a war every time individuals quarreled or were affronted, the world would be as full of them as a forest is full of leaves. A personal quarrel begins a war when the situation is ripe for war, just as a match, dropped on a dry, littered forest floor, begins a forest fire. It is the litter and the drought which are principally responsible for the fire. The match is an accident.

Through countless ages men have struggled to secure easier ways of making a living. The Jewish tribes, entering the Jordan Valley; the Shepherd Kings, invading the Valley of the Nile; the wild Goths, hurling themselves upon a fertile Italy, all illustrate that unceasing effort of the economically less favored to take possession of the opportunities of the economically more favored. On every continent there are a few garden-spots—the Hoang-ho, the Ganges, the Euphrates, the Volga, the Danube, the Mississippi—where food grows readily; where the river solves the problem of transportation, and where possession means comparative ease and comfort so far as the struggle with nature is concerned. The inhabitants of these garden-spots have cultivated them, built walled cities, organized armies, and taken all possible steps to protect themselves against the rugged tribes from the hills, only to be over-run and finally enslaved by these hardy hunters, shepherds and fighters. These efforts of hill tribes to secure valley land were wars for economic advantage.

As the world became better organized, regular commercial routes developed, and the commercial ventures along these routes proved to be far more lucrative than the cultivation of the soil. The Mediterranean, for example, was a great trade-highway, and it was for this reason that Corinth, Carthage and Rome fought for its possession until two of the rivals were destroyed, and only Rome remained.

The possession of the trade carried with it the banking, the money-lending, and later the insurance, hence, for centuries the wars were trade wars—between Venice and Genoa; between Holland and Spain; between Holland and England; between England and the United States.

With the industrial revolution and the advent of the new system of economic organization, wars were fought for markets to which surplus manufactured products could be sent; for coal and iron and the other essential resources; for “undeveloped” (unexploited) territory in Africa and Asia, where investments could be profitably made. This epoch is well described by J. A. Hobson (“Imperialism,” New York, Pott, 1902); by H. N. Brailsford (“The War of Steel and Gold,” London, Bell, 1914); and by E. D. Morel (“Truth and the War,” London, National Labor Press, 1916).


Man’s struggle for wealth and for power has been going on through the ages. The latest phase of that struggle is called “financial imperialism.”

Financial imperialism is the super-germ of modern wars. Strong peoples rob weak peoples. It is the most highly developed road to the conquest of riches and of power that the world has ever known, and the masters of modern nations are playing the imperial game with a concentration and an aggressive determination that would put a Roman or an Egyptian imperialist to shame.
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The industrial revolution made financial imperialism the inevitable flower of an economic system based on special privilege and organized by the few for the exploitation of the many. The Ancient Regime in Europe had evolved rent as a method by which the owning class could live without working on the labor of the producers. The developing factory system extended this possibility from the land to the machine. To rent, as a source of unearned (parasitic) income, industrialism, with the aid of the corporation added profits, interest and dividends. The owning class was no longer confined to the revenues from agricultural land. Mining, railroading, manufacturing, public utilities, banking, insurance—these and many more of the industries which flourished with the rising industrial system made it possible for the owners to increase the volume and to diversify the sources of their income. Thus the position of the owning class became more secure at the same time that their total income was increased.

A man working on the land with hand tools can produce barely enough to keep body and soul together. Supplement his labor by that of an ox or a horse, and his capacity to produce is increased. Add a tractor, a seeder, a reaper and binder, and the efficiency of his labor is multiplied many fold. A good man with a scythe can reap an acre in a day. A reaper and binder does the work in twenty minutes. Machinery, driven by nature's energy, gives man an immensely increased means of wealth production.

The surplus wealth (unearned income) in an agricultural society is small. An industrial community has far more surplus. Consequently it is in the highly organized industrial districts that the pressure toward imperialism is the greatest.

The owner of industrial properties invests his surplus inside his own country until a point is reached where outside investments pay higher returns. Then he goes to that foreign territory which offers the largest and the surest income. The more efficient the industrial property which he holds, the greater will be the surplus which the owner has to invest.

The industrial revolution has added still another incentive to aggression. Under an agricultural system, to conquer additional territory simply meant to acquire more land like that already held. With the demands of modern industry, however, it becomes necessary to have many and varied commodities such as coal, copper, iron, platinum, rubber, cotton. The districts in which these commodities exist, or in which they can be produced, are very limited. Consequently each industrial nation strains every nerve to get and to hold them. The industrial revolution has resulted in an intensified demand for certain resources whose supply is extremely limited. The contention for these resources constitutes one of the moving forces of modern society.

Resources, markets, trade, investment opportunities—all of these forces must be reckoned with in any estimate of the intensity with which great modern empires will struggle for supremacy.

The Great War was fought over just such issues. Take for example, a book like "The Economic War in our Colonies," by Pradier and Besson, with a preface by M. Paul Deschanel, then President of the Chamber of Deputies. (Paris, Felix Alcan, 1916.) The work is devoted to the economic issues between the Central Powers and France. The authors show in detail how the Germans and Austrians had been building up their trade in France itself as well as in the French colonies. Imports into the French colonies from Austria and Germany doubled between 1907 and 1913, while exports from the French colonies into Austria and Germany trebled during the same period. "One of the most important after the war problems will be to discover how to paralyze and annihilate the Austro-German commerce, not only in the Metropolis, but also in our colonies," the authors write (p. 5). The book continues with a vigorous plea to the French Government to take any and every means to destroy the commercial power of "the enemy."

There are radical writers in plenty, such as Achille Loria in his "Economic Causes of War," F. C. Howe in his "Why War?" and George Kirkpatrick in his "War—What For?" who point out the imperial germs that cause modern wars. But they are not alone. The Congressional Record for Jan. 7, 1901 (p. 687) reports Senator Lodge as saying: "If anyone will take the trouble to look back into the history of modern times, since the great economic movements began, he will see how many of the wars came originally, never ostensibly, but actually from economic causes." And Prof. E. R. A. Seligman ("Problems of Readjustment," New York, Appleton, 1915, p. 43) observes: "If I read history aright, the forces that are chiefly responsible for the conflicts of political groups are the economic conditions affecting the group growth."

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"The Navy League Believes:

"That most modern wars arise largely from commercial rivalries;
"That we are now seizing the trade of the world;
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The conclusion of course was, not that the United States should stop seizing the trade of the world, but that it should have a big navy in order to protect the trade after it was seized.

Authorities may be cited endlessly, but to what purpose? Who can doubt that Mr. Wilson was right when he exclaimed, in his famous St. Louis speech: Of course this was a commercial war! The events of the past ten years have torn the mask from financial imperialism, so that it stands before the world today as the method by which strong nations rob and exploit weak ones—peaceably, where the weak make no protest; by force of arms where they resist.

Financial imperialism is the up-to-date method by which Never hitherto has the amount of surplus in the hands of the owning class been so vast. Never has the pressure to secure the choice spots in nature's garden been more acute. Empires are pushed toward armaments and toward wars with all of the power that lies in the undeveloped resources, in the bitter contest for trade and for markets, and in billions of annual surplus, demanding safe investment.


Oil qualifies as a germ of war under any possible classification. The struggle for oil is typical of the conflicts that have been occurring during the past half century, with the essential resources as their objectives. Industries are organized within the political boundaries of a country, but there is no country that contains all of the resources necessary for its survival, and therefore the industries of each must reach outside of the country for the missing raw materials. In the case of great countries like Britain, France and Germany not only oil, but copper, rubber, cotton, hides, fats, wool and numerous other essentials must be imported.

Inevitably, so long as country struggles against country for supremacy, the major conflicts of the world will be over the possession of essential resources.

Here, then, is the germ of modern wars. The great, driving, unceasing pressure for the control of economic resources is the largest single fact in the conflict between political groups, and unless this conflict can be eliminated or modified, men must continue in the future, as they have in the past to slaughter one another periodically in the interest of economic advantage.

17. Making the World a Living Place.

How can this problem be met? Here is the germ of modern wars. Can it be destroyed? One or two conclusions suggest themselves:

1. The present economic system, based on the profit motive and organized in national units cannot even attempt the task.
2. There is only one sound method of approach to the problem, and that lies through a recognition of the following facts:

a. The people of the world, irrespective of race or nationality, have two common objectives—to go on living and to live better.

b. The resources upon which better living depends—fertile land, coal, water-power, oil—are not the product of human energy. On the contrary, they were formed irrespective of the human race.

c. These resources are therefore the common property of those who inhabit the globe, and the people of the United States have no more claim to copper because it happens to be in Michigan than has the Girard Estate to anthracite coal because it happens to own the lands under which the coal lies.

3. The resources of the earth must therefore be used to enable the people of the earth to go on living and to improve the conditions of their lives.

18. Oil for Those Who Need It—a World Solution.

There has been one oil war. Suppose there is a second and a third and a fourth. Suppose that in the course of these wars one great nation survives the struggle and secures a monopoly of all of the oil resources of the world. This nation will be in a position to levy a tax on every human being who uses oil in any of its forms. What then? Will the conqueror survive his conquest? History says: No! Will the payers of
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tribute gain in happiness? Again, the answer of experience is in the negative.

In the last analysis, the oil reserves of the world differ from the oceans in only one essential respect: they are far more limited in amount, and therefore more easily monopolized. It is quite possible, however, that one nation might become so powerful that it could appropriate the seas, and tax all who wished to use them. The sea-monopolist would then be in exactly the same position as the oil monopolist—he would be able to live without labor on the labor of some of his fellow-men.

That is no solution of the problem. The people of the world need oil. How are they to get it on an equitable basis? How have they used the seas?

The seas are not nationalized. They are open highways to be used by those who wish to carry on commercial activities.

Oil is not national. Baku petroleum has not changed its character since the Russian Revolution, any more than the oil of Mexico is modified by being transferred from Standard Oil ownership to Mexican Government ownership.

The important resources—oil, coal, iron, copper, water-power—are a part of the mother earth upon which lives the human race. Humanity is dependent for its existence upon the use of these resources, and that without reference to race or nationality. Under these circumstances, it seems inevitable that some plan must be perfected under which the essential resources go to those who need them, and in proportion to the need.

The revenues of the United States Government are distributed among the various government departments and among the different sections of the country in proportion to the needs of the various departments or sections, just as the coal and iron-ore of the United States Steel Corporation are divided among its constituent companies in proportion to their needs. If there is a shortage in either case, the quotas are sealed down until the total available supply is distributed among the applicants for it.

Politically, therefore, the question resolves itself into a discussion as to how an authority can be set up, which will be wide-spread enough to have jurisdiction over the essential economic advantages and resources of the world, and which will, at the same time, be sufficiently representative so that all of the claimants for the use of any economic advantage or resource shall have a voice in deciding as to its disposition.

Many people believe that the League of Nations will provide the answer, but to those who have studied the origin and development of the modern nation, the League of Nations seems as inadequate to meet the need as is an Indian canoe to transport iron ore from Duluth to Buffalo, or a prairie schooner to haul farm machinery from Illinois to Dakota. The canoe and the prairie schooner both had their uses, and in their day they were wonderful assets in the struggle of the human race for control of the continent, but they have been superseded by the steamboat and the locomotive. So it is with the modern nation. It played its part while the life of men was isolated and local, but with the coming of world life, a league of nations is as ineffective as a fleet of canoes or a convoy of prairie schooners.

The economic organization of the world must be undertaken by those who are immediately concerned with the economic activity—men and women whose energy makes the wheels and keeps them turning. The new world organization must be a producers' organization, built along the lines of modern productive activity.

With the transport workers, the construction workers, the miners, the agricultural workers, the manufacturing workers of the world organized, each in their respective occupational groups, the foundation would be laid for a world producers' federation that could handle the problems of resources and raw materials, of transport, of finance, and of other world economic problems in a unified and scientific manner.

The race depends today on the engineer,—on the individual who understands how to make nature's resources into things that men need. By sad chance, the world has fallen into the hands of profiteers, whose aim it is to maintain the largest possible margin between cost and selling price. The profiteer (owner) challenges the engineer (worker). The profiteers' goal is "grab and keep." The engineer's goal is "produce and distribute." It is the slogan of the engineer on which the foundations of the new world must be laid. It is the carrying out of this slogan on a world basis that will make war unnecessary and impossible.
tribute gain in happiness? Again, the answer of experience is in the negative.

In the last analysis, the oil reserves of the world differ from the oceans in only one essential respect: they are far more limited in amount, and therefore more easily monopolized. It is quite possible, however, that one nation might become so powerful that it could appropriate the seas, and tax all who wished to use them. The sea-monopolist would then be in exactly the same position as the oil monopolist—he would be able to live without labor on the labor of some of his fellow-men.

That is no solution of the problem. The people of the world need oil. How are they to get it on an equitable basis?

How have they used the seas?

The seas are not nationalized. They are open highways to be used by those who wish to carry on commercial activities.

Oil is not national. Baku petroleum has not changed its character since the Russian Revolution, any more than the oil of Mexico is modified by being transferred from Standard Oil ownership to Mexican Government ownership.

The important resources—oil, coal, iron, copper, water-power—are a part of the mother earth upon which lives the human race. Humanity is dependent for its existence upon the use of these resources, and that without reference to race or nationality. Under these circumstances, it seems inevitable that some plan must be perfected under which the essential resources go to those who need them, and in proportion to the need.

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The Production of Crude Petroleum

(1860-1922) in the five countries reporting at least ten million barrels for 1922, together with figures for total world production. Figures in millions of barrels.

<table>
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<tr>
<th>Year</th>
<th>United States</th>
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<th>Persia</th>
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